

MULTI-STAGE DYNAMIC BRAKING RESISTOR NETWORK

ABSTRACT OF THE DISCLOSURE

A multi-stage dynamic braking resistor network (23) is provided that includes a plurality of dynamic brake resistors (1a-d) for dissipating, as heat, regenerative energy inputted onto a system bus (17) by a motor or actuator (19), and a plurality of switches (31a-d) for connecting the dynamic brake resistors (1a-d) to and from the system bus (17), respectively. The multi-stage dynamic braking resistor network (23) further includes a control circuit (25) for controlling the switches (31a-d) such that the dynamic brake resistors (1a-d) are connected to and from the system bus (17) on the basis of a predetermined voltage threshold of the system bus and on the basis of a predetermined rotation pattern.